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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/429,939	10/29/1999	MICHEL AUTHIER		6547

7590 02/27/2003

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EXAMINER

PRUNNER, KATHLEEN J

ART UNIT	PAPER NUMBER
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3751

21

DATE MAILED: 02/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.  
09/429,939

Applicant(s)  
Authier et al.

Examiner  
Kathleen J. Prunner

Art Unit  
3751



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE THREE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Jan 2, 2003
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 26-38 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 26-38 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_ 6) ☐ Other:

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 26-38 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 26 calls for a computer that “automatically selectively activates and deactivates said at least one pump . . . so that the temperature of the water inside said spa and spa piping is maintained above the freezing level”; however, the specification merely supports that “the computer selectively activates and deactivates the heating element and the at least one pump” to maintain the temperature of the water inside the spa and the spa’s associated piping above the freezing level (note lines 5-7 and 11-12 on page 3). Claims 32 and 38 call for a computer that “automatically selectively activates and deactivates said at least one air blower (means) and said at least one water pump (means) . . . so that the temperature of the water inside said spa tub and said spa piping is maintained above the freezing level”; however, the specification merely supports that “the computer selectively activates and deactivates the heating element and the at least one pump” to maintain the temperature of the water inside the spa and the spa’s associated piping above the freezing level (note lines 5-7 and 11-12 on page 3). Claim 26 calls for a computer that “automatically selectively activates and deactivates said at least one pump based upon inputs from said second sensor”; however, the specification merely supports that the computer is “programmed to process signals generated by the first sensor and the second sensor, wherein the computer selectively activates and deactivates the heating element and

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that at least one pump” (note lines 1-12 on page 3). Claims 32 and 38 call for a computer that “automatically selectively activates and deactivates said at least one air blower (means) and said at least one water pump (means) based upon inputs from said second sensor”; however, the specification merely supports that the computer processes “signals generated by the first sensor and the second sensor, wherein the computer selectively activates and deactivates the heating element and the at least one pump” (note lines 10-12 on page 3). Hence, claims 26-38 are directed to new matter.

***Claim Rejections - 35 USC § 103***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 26-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tompkins et al. (‘720) in view of Dundas. Tompkins et al. disclose a freeze control system for a spa having a spa tub or container 11 for holding water, spa piping 35 for circulating water to and from the spa tub 11, a heating element 26 for heating the water, a pump 24 for pumping water, a temperature sensor 21 for detecting the temperature of the water in the spa tub 11, and a computer 10 programmed to automatically process signals and selectively activates and deactivates the heating element 26, blower 28 and the pump 24 (note lines 50-55 in col. 1 and from line 66 in col. 18 to line 36 in col. 19). Although Tompkins et al. fail to disclose the use of an air temperature sensor and although Tompkins et al. use water temperature sensor 21 as well as other water sensors to operate the freeze control system, attention is directed to Dundas who discloses another freeze control system for a spa or pool that uses both a water temperature sensor and an ambient air temperature sensor to activate the control system (note lines 54-57 in col. 1 and lines 16-33 in col. 2) in order to heat the pool using minimal energy with less waste and expense (note lines 15-19 and 35-37 in col. 1). It would have

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been obvious to one of ordinary skill in the spa/pool art, at the time the invention was made, to use an ambient air temperature sensor in conjunction with the water temperature sensor in the control system of Tompkins et al. in view of the teachings of Dundas in order to more effectively operate the control system using minimal energy and less waste and expense. With respect to claims 27 and 33, the positioning of the ambient air temperature sensor is considered to be an obvious expedient to the skilled artisan since to obtain an accurate ambient air temperature reading, the ambient air temperature sensor should necessarily be mounted so as to be unaffected by any apparatus that emits heat including that of the components of the control system. With regard to claims 28, 29, 34 and 35, it is considered that to position the ambient air temperature sensor closer to the spa equipment where it can be affected by the heat generated by the operating and control systems of the spa/pool and to have the computer make the required correction factors to account for this heat would be an obvious expedient to the skilled artisan especially when available space is limited and accurate readings are key to the efficient operation of the spa. With regard to claims 31 and 37, although it is considered that the predetermined time period necessary to effect operation of the pump is an obvious expedient to the skilled artisan, to use a predetermined time period of one minute to effect operation of the pump is simply the result of optimization of the prior art teachings through routine experimentation, which is not a matter of invention, absent a showing to the contrary (see *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA) 1955), and *In re Hoeschele*, 406 F.2d 1403, 160 USPQ 809 (CCPA 1969). With respect to claims 32 and 38, Tompkins et al. further disclose an air blower 28 for blowing air into the spa tub 11.

### ***Response to Arguments***

5. Applicant's arguments filed January 2, 2003 (Paper No. 20) have been fully considered but they are not deemed persuasive.

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6. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

7. In response to applicant's arguments regarding the Dundas reference, it is pointed out that the Dundas reference does indeed describe an automatic control (note lines 16-27 in col. 2) as well as the option of using a manual operation (note lines 22-25 in col. 4).

### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. The Examiner is advising attorneys to FAX any response due to Office actions. The U. S. Patent and Trademark Office (USPTO) is experiencing major delays in matching up papers that were mailed. Due to the Anthrax issue, any mail sent to the USPTO is automatically sent to an irradiation center in Virginia. It has been found that the irradiation process makes papers too brittle to handle. Therefore, the irradiation center has to further copy each paper. The originally filed irradiated papers are then placed in a sealed envelope and put in the associated file. After this irradiation process, the "papers" are then sent to the Office where they are matched with the file. This entire procedure

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causes months in delays due to the quantity of mailed received. Therefore, it is suggested that any response be sent by FAX especially if a time limit is critical. The FAX number for the technical center where this file is located is given in the paragraph below.

10. Any inquiry concerning this communication from the examiner should be directed to Examiner Kathleen J. Prunner whose telephone number is 703-306-9044. The examiner can usually be reached Monday through Friday from 5:30 AM to 2:00 PM.

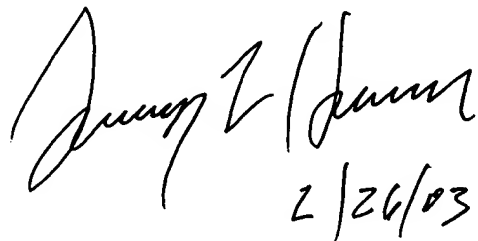
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Huson, can be reached on 703-308-2580. The FAX phone number for the organization where this application is assigned is 703-308-7766.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is 703-308-0861.



Kathleen J. Prunner:kjp

February 21, 2003



2/26/03

GREGORY HUSON  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700